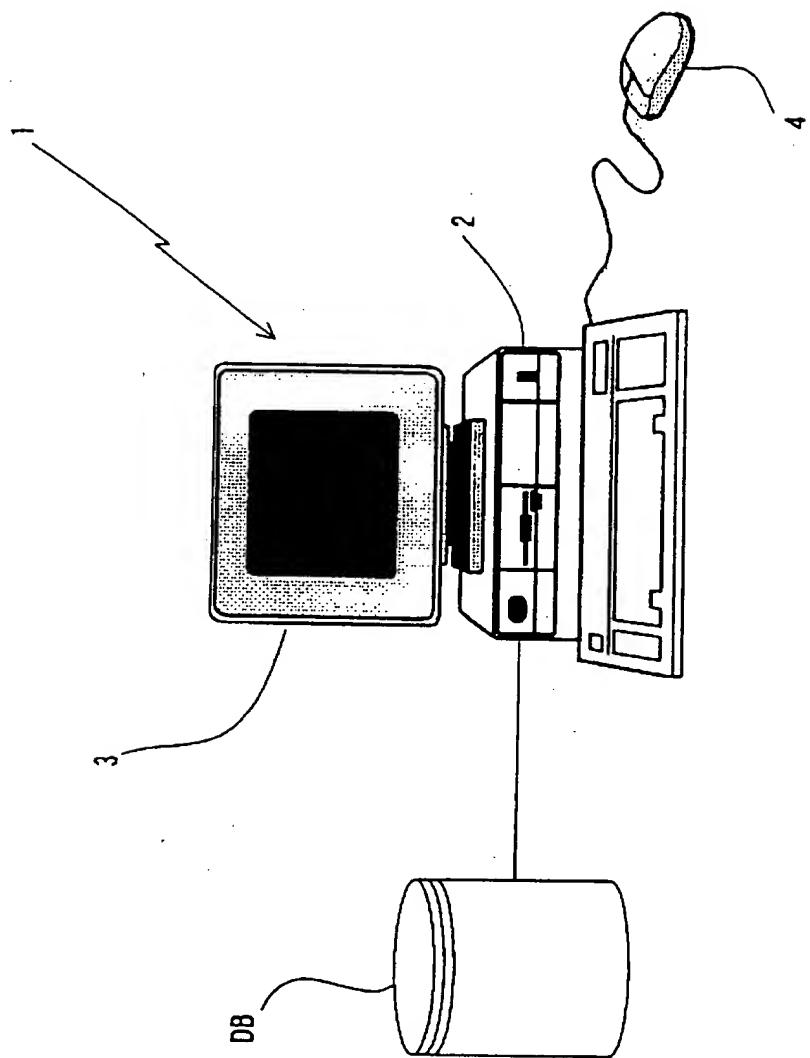


[Document type] Drawing

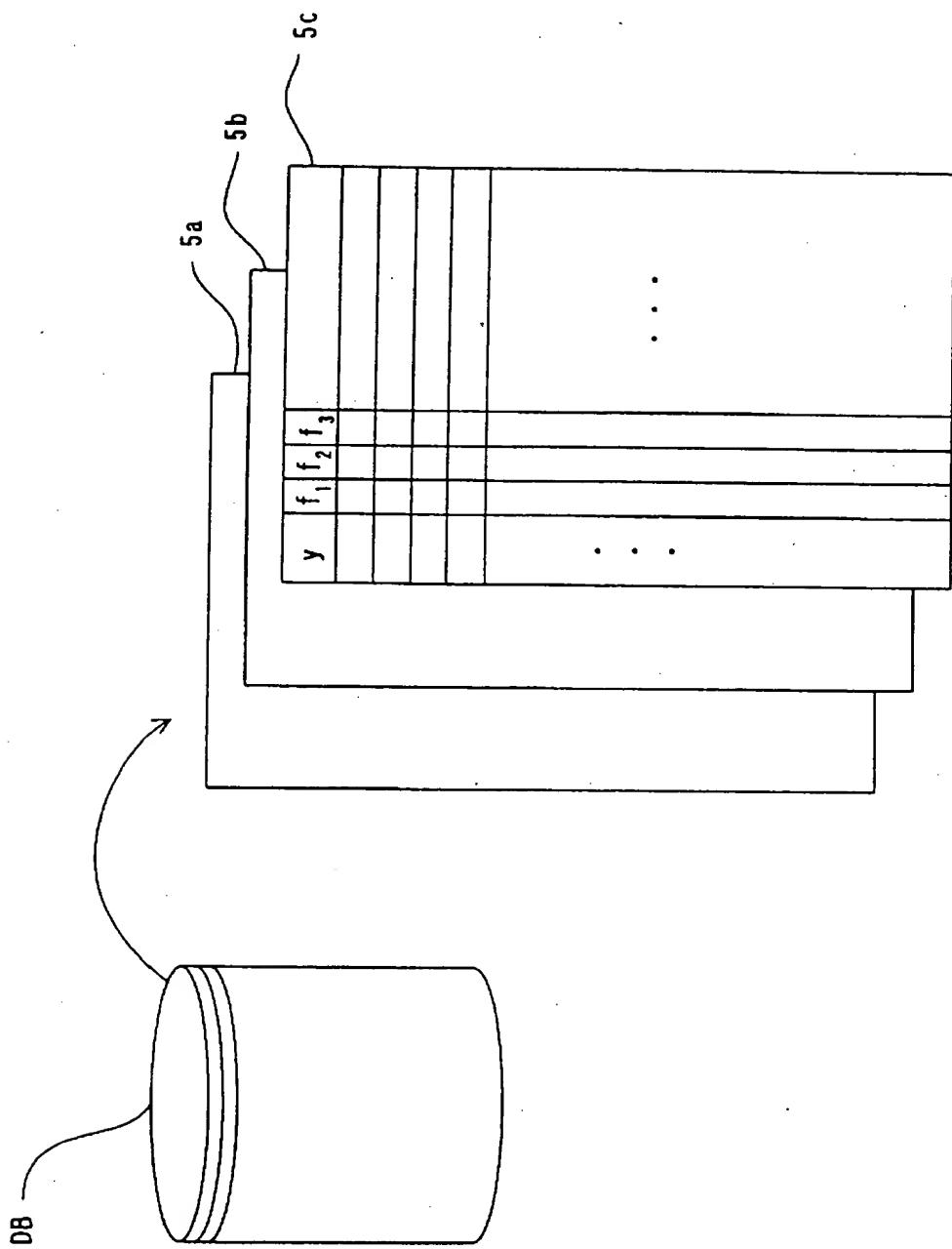
[Figure 1]

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[Figure 2]

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[Figure 3]

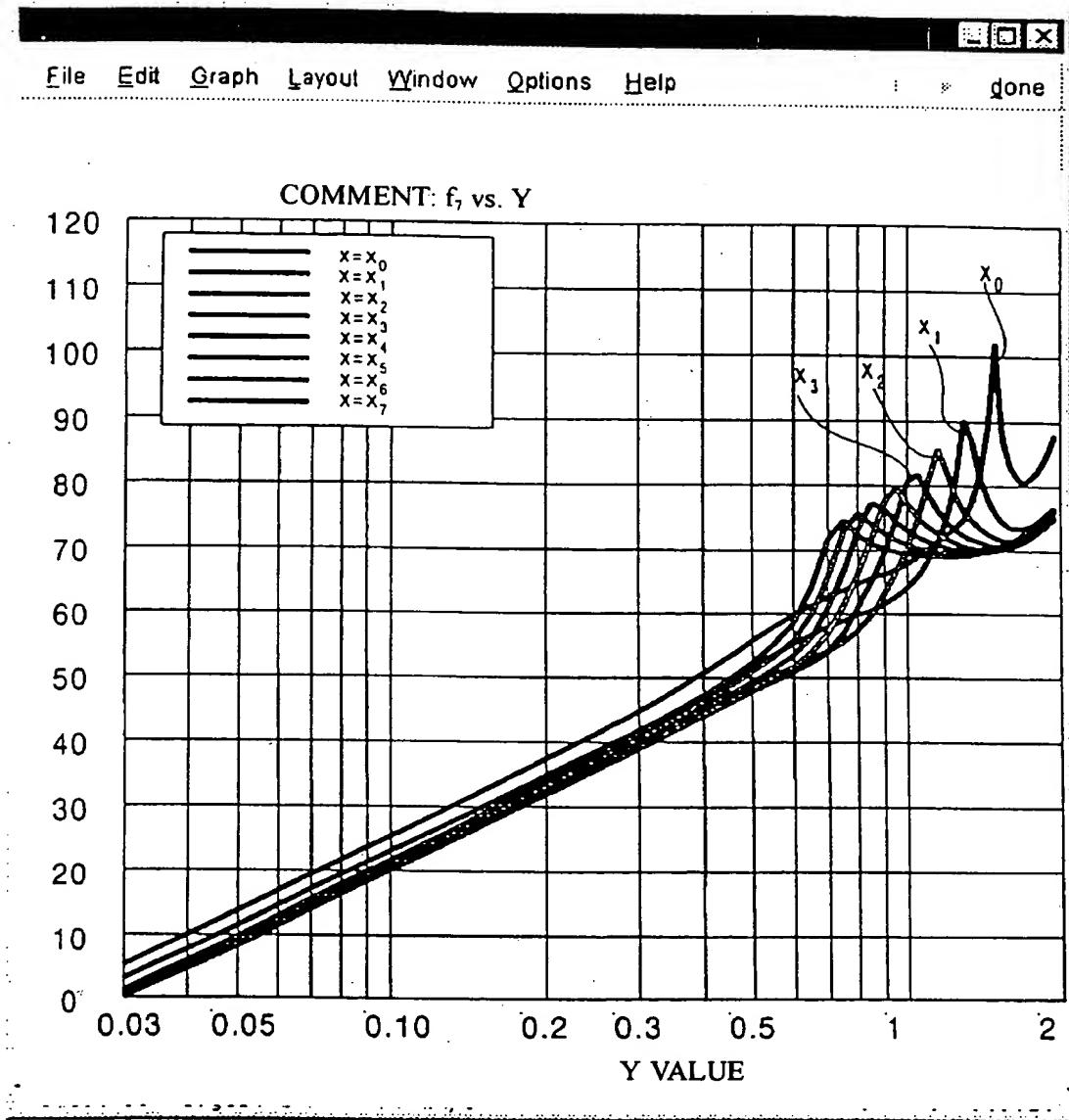
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5a

$y$	$f_1$	$f_2$	$f_3$	$f_4$	$f_5$	$f_6$
0.03	0	0	0	3	0	0
0.05	0	0	0	12	0	0
0.10	0	10	11	24	0	0
0.15	0	19	18	30	0	0
0.20	7	27	23	35	0	0
0.25	13	32	26	39	0	0
0.30	18	37	29	42	0	0
0.35	23	42	31	45	3	2
0.40	25	45	33	47	6	9
0.45	26	49	35	48	9	14
0.50	26	51	36	50	12	19
0.55	26	54	37	51	14	24
0.60	27	56	38	53	15	28
0.65	28	57	38	54	17	32
0.70	29	59	38	55	18	35
0.75	30	60	38	56	20	37
0.80	31	61	38	57	20	39
0.85	33	61	36	57	21	40
0.90	35	62	32	58	22	41
0.95	37	62	16	59	21	43
1.00	40	63	33	59	21	44
1.05	43	64	41	60	18	45
1.10	46	65	47	60	11	47
1.15	49	67	51	60	13	48
1.20	53	68	55	61	25	50
1.25	56	69	59	61	32	52
1.30	60	71	63	62	38	55
1.35	65	72	68	63	44	59
1.40	70	75	73	67	50	64
1.45	78	81	82	77	59	73
1.50	91	92	95	91	73	86
1.55	77	78	81	79	60	72
1.60	72	75	77	76	57	68
1.65	70	75	75	75	55	67
1.70	68	76	74	75	54	67
1.75	67	77	73	75	54	67
1.80	66	78	73	75	54	69
1.85	66	80	72	76	54	71
1.90	66	82	72	76	54	73
1.95	66	85	72	78	54	76
2.00	66	89	72	80	54	80

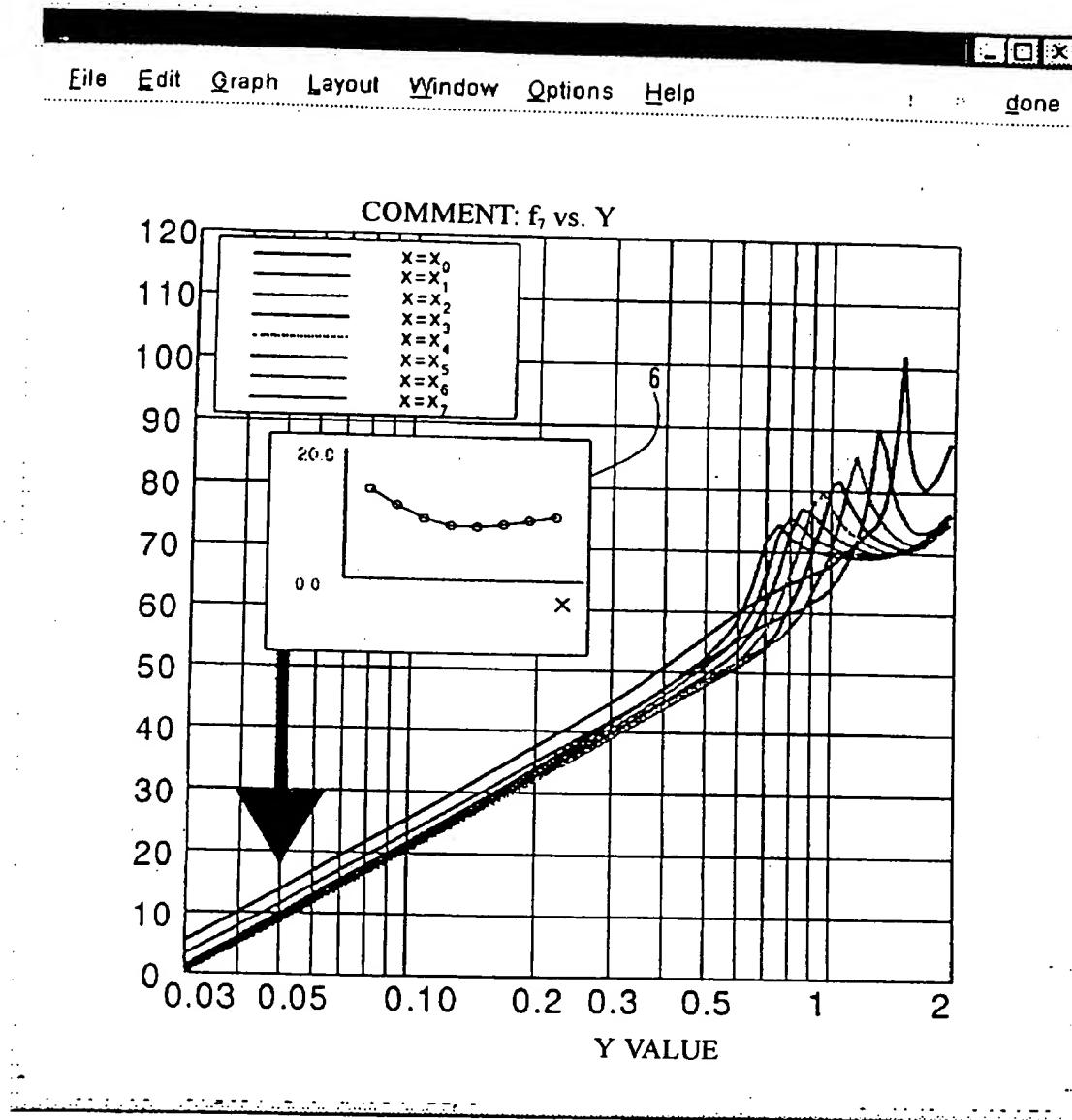
[Figure 4]

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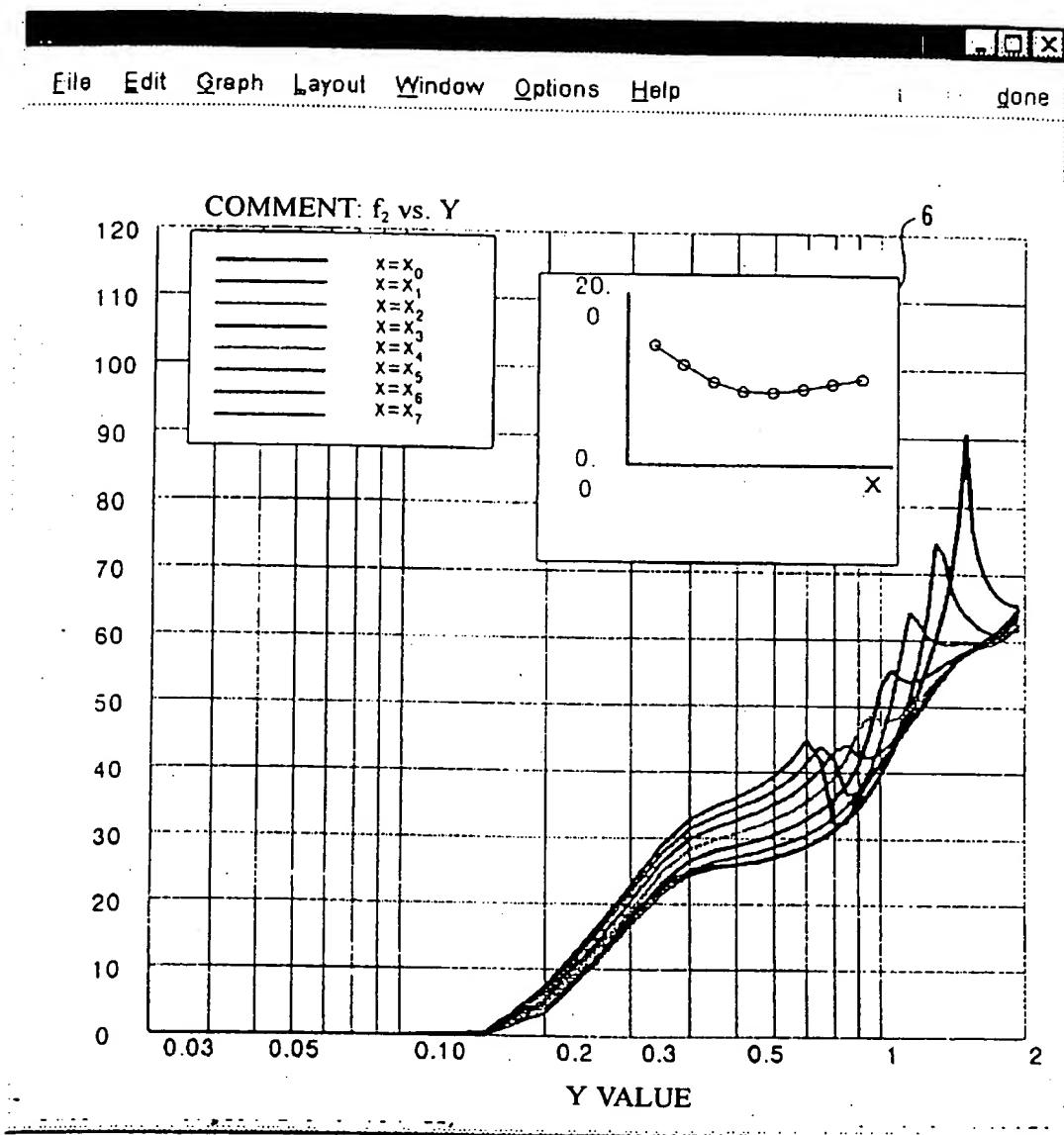
[Figure 5]

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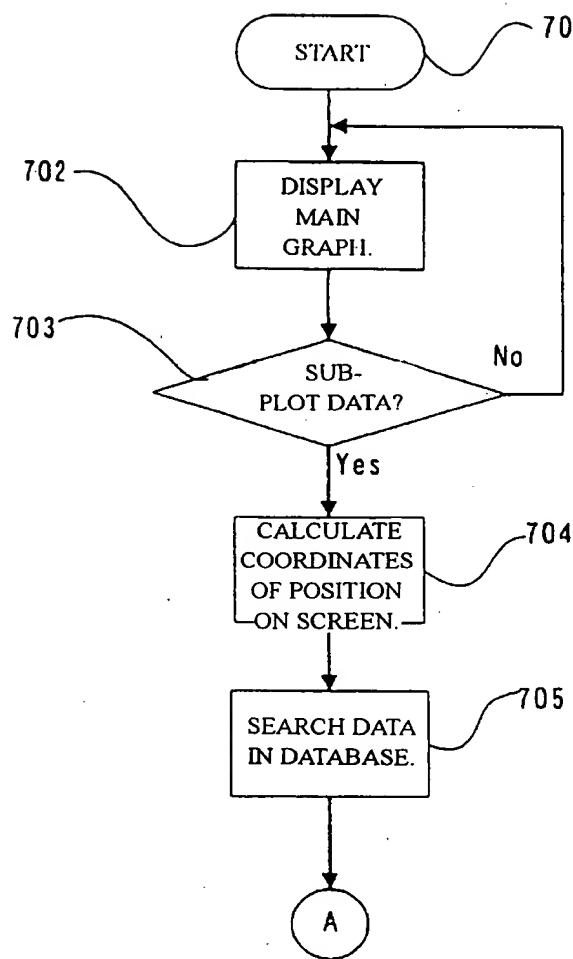
[Figure 6]

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[Figure 7]

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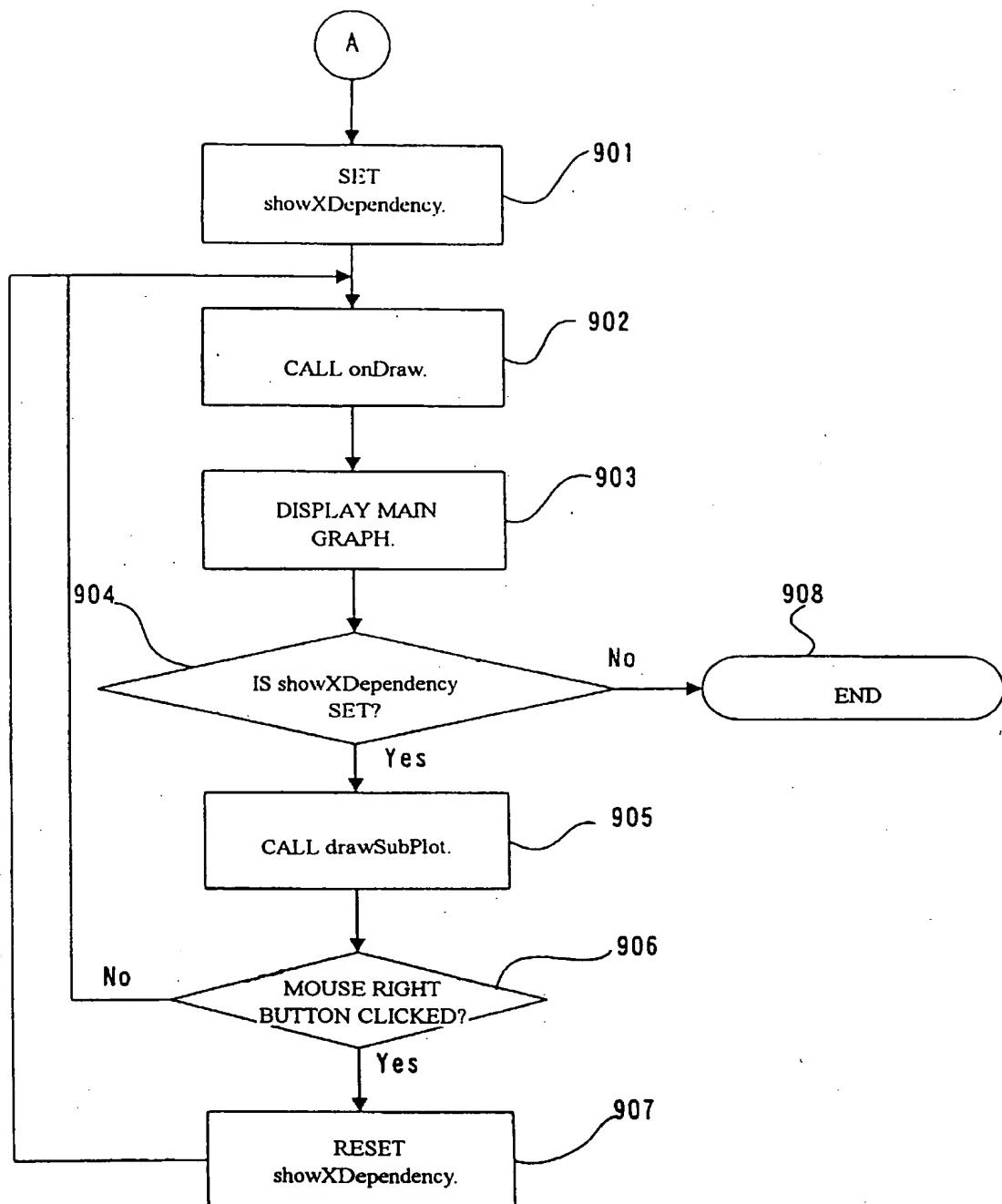
[Figure 8]

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X [2]									
x=x <sub>1</sub>									
Y f <sub>1</sub> f <sub>2</sub> f <sub>3</sub> f <sub>4</sub> f <sub>5</sub> f <sub>6</sub> f <sub>7</sub> f <sub>8</sub> f <sub>9</sub>									
x=x <sub>2</sub>									
Y	f <sub>1</sub>	f <sub>2</sub>	f <sub>3</sub>	f <sub>4</sub>	f <sub>5</sub>	f <sub>6</sub>	f <sub>7</sub>	f <sub>8</sub>	f <sub>9</sub>
0.03	0	0	0	3	0	0	5	0	0
0.05	0	0	0	12	0	0	14	0	0
0.10	0	10	11	24	0	0	26	0	4
0.15	0	19	18	30	0	0	33	0	8
0.20	7	27	23	35	0	0	38	0	11
0.25	13	32	28	39	0	0	41	1	14
0.30	18	37	29	42	0	0	45	3	17
0.35	23	42	31	45	3	2	48	5	20
0.40	25	45	33	47	6	9	51	7	23
0.45	28	49	35	48	9	14	53	8	26
0.50	28	51	36	50	12	19	56	9	29
0.55	26	54	37	51	14	24	58	9	32
0.60	27	56	38	53	15	28	60	8	33
0.65	28	57	38	54	17	32	61	4	34
0.70	29	59	38	55	18	35	63	0	35
0.75	30	60	38	56	20	37	64	8	35
0.80	31	61	38	57	20	39	65	17	36
0.85	33	61	36	57	21	40	66	23	37
0.90	35	62	32	58	22	41	66	28	38
0.95	37	62	16	59	21	43	67	33	40
1.00	40	63	33	59	21	44	68	38	43
1.05	43	64	41	60	18	45	69	43	46
1.10	46	65	47	60	11	47	70	50	52
1.15	49	67	51	60	13	48	71	61	63
1.20	53	68	55	61	25	50	73	59	62
1.25	56	69	59	61	32	52	74	54	58
1.30	60	71	63	62	38	55	75	51	57
1.35	65	72	68	63	44	59	78	50	57
1.40	70	75	73	67	50	64	82	49	57
1.45	78	81	82	77	59	73	90	49	58
1.50	91	92	95	91	73	86	102	49	58
1.55	77	78	81	79	60	72	88	49	58
1.60	72	75	77	76	57	68	83	49	58
1.65	70	75	75	75	55	67	81	49	58
1.70	68	76	74	75	54	67	80	50	59
1.75	67	77	73	75	54	67	81	50	59
1.80	66	78	73	75	54	69	82	50	60
1.85	66	80	72	76	54	71	84	51	61
1.90	66	82	72	76	54	73	86		
1.95	66	85	72	78	54	76	88		
2.00	66	89	72	80	54	80	92		

[Figure 9]

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[Figure 10]

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CMomentView class pseudo code

```
[Main Routine]
// definition
xData: CMomentDoc data
xIndex: an index denoting a specific CMomentData
selection: specification of one of  $f_1$ ,  $f_2$ ,  $f_3$ , ... to be displayed on the main graph
showXDependency: a flag denoting whether to display sub-plotted data
subPlotPosition: a position for displaying sub-plotted data

// Processing

// 1. Obtaining a display screen size
getScreenSize()

// 2. Setting items on the main graph, such as horizontal axis range, vertical axis range,
grid, plotting color, plotting line type, font, etc.
setMainGraphAttribute()

// 3. Calculating place and size for drawing a graph
setGraphPositionAndSize()

// 4. Reading xData
getData(xData, xIndex)

// 5. Displaying part of xData selected by "selection" on the main graph
drawMainGraph(xData, xIndex, selection)

// 6. Displaying sub-plotted data
drawSubPlot(xData, xIndex, selection, showXDependency, subPlotPosition);
```

[Figure 11]

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DETAILS OF SUBROUTINE `drawSubPlot()``// definition``subPlotYIndex: an index denoting the position of a variable Y to be isolated by sub-plotting``subPlotY[]: a value of data to be sub-plotted``// 6.1 When displaying sub-plotted data``if(showXDependency) {` `// 6.1.1 Selecting the position of a variable Y to be sub-plotted` `subPlotYIndex=setSubPlotY();` `// 6.1.2`

For example, in order to reference to the data in the variable Y of the CMomentData class instance denoted by `xIndex`, selected in 6.1.1 at `selection=fi`;

`xData -> setIndex(xIndex);``xData ->X() -> setIndex(subPlotYIndex);``subplot[xIndex]=xData ->X() -> f1();`

The above processings are repeated for each instance of the CMomentData class specified by `subPlottingxIndex`.

`// 6.1.3 Setting size and position of sub-plotting`

For example, 1/4 height of the size of the main plotting in the vertical direction and size in the horizontal direction in proportion to the number of plotting parameters d. The position denotes a position where the mouse button is clicked.

`setSubPlotSize();``// 6.1.4 Setting both maximum and minimum values of the vertical axis of sub-plotting`

For example, the values are set to be equal to the maximum and minimum values of data which exhibit the maximum and minimum values.

`setSubPlotAttribute();``// 6.1.5 Drawing sub-plotting``drawSubPlot()``} // end of if (showXDependency)`